



US 20170048869A1

(19) **United States**

(12) **Patent Application Publication**  
**Chmiel et al.**

(10) **Pub. No.: US 2017/0048869 A1**

(43) **Pub. Date: Feb. 16, 2017**

(54) **METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR ENHANCED CONTROL CHANNEL USAGE IN CARRIER AGGREGATION**

**Publication Classification**

(51) **Int. Cl.**  
**H04W 72/04** (2006.01)

(52) **U.S. Cl.**  
**CPC ..... H04W 72/0493** (2013.01); **H04W 72/0413** (2013.01); **H04W 72/0446** (2013.01)

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(57) **ABSTRACT**

The present invention addresses a method, apparatus and computer program product for managing control channel usage in Carrier Aggregation, which implement defining a time reuse factor for a Physical Uplink Control Channel resource on a Primary Cell for enabling time multiplexing the subframes of the resource, and assigning a Physical Uplink Control Channel resource element to a requesting User Equipment by using colliding resources in different subframes, wherein the time reuse factor is variably set based on at least one of the number of requesting User Equipments and the individual traffic needs of the requesting User Equipment.

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(21) Appl. No.: **15/228,547**

(22) Filed: **Aug. 4, 2016**

(30) **Foreign Application Priority Data**

Aug. 14, 2015 (EP) ..... 15181100

